



plasma process group

I-BEAM™ 602 FC/PBN Ion Beam Source Power Supply (Filament Cathode / Plasma Bridge Neutralizer)



- **All ion source parameters displayed continuously on large, bright LEDs**
 - **Enables visual monitoring of ion source and process performance**
- **Flexible control modes - manual, automatic (local), and remote**
 - **Gives full control over the process by either computer or operator**
- **Highest quality and state of the art electronics for durability, dependability and long life**
- **Complete CE certification and RoHS compliant**
- **Separate display and keypad for programming, simplifying setup and operation**

Description

The I-BEAM™ 602 FC/PBN Power Supply provides power and control for ion beam sources with filament cathodes and plasma bridge neutralizers. Designed specifically to optimize performance of Plasma Process Group's 3cm, 8cm and 13cm ion beam sources, the I-BEAM™ FC/PBN can run sources from other manufacturers as well.

For production applications, the I-BEAM™ FC/PBN is designed for reliability and ease of use. Control modes allow operation from the front panel or remotely through the RS-232 interface. In remote control mode, operating parameters are set via the interface. In local control mode, the power supply adjusts parameters

automatically based on preset values, minimizing operator intervention or error. Up to 9 sets of operating parameters can be stored for recall in the I-BEAM™ FC/PBN.

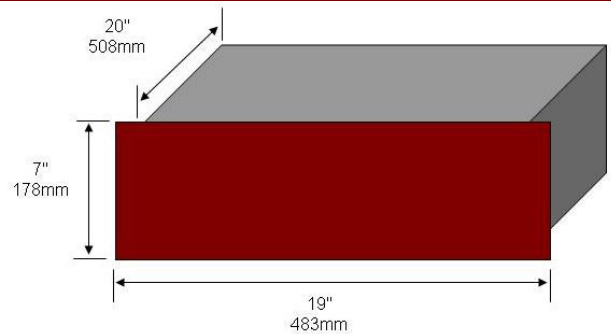
The I-BEAM™ FC/PBN is also well suited for research & development applications. A separate display and keypad make setup and operation quick and easy. All ion source operating parameters are displayed continuously on individual large LED displays. Manual control mode gives the operator full control of all parameters, allowing easy response to those unexpected circumstances typical of research.

Whether you're in a research or production environment, Plasma Process Group is committed to providing you with the best support possible. Help is never more than a phone call away (or email if you prefer). Our people have many years of experience with ion beam sources, systems, and applications, and we're happy to share that with you. Give us a call.

Specifications

Power Outputs	Five individual supplies to drive a filament cathode and PBN source
beam supply	1500 VDC, 500 mA
accelerator supply	1000 VDC, 50 mA
discharge supply	80 VDC, 6 A
cathode supply	20 A, 700 W
neutralizer supply	0.1 - 10 A filament 0.05 - 0.7A Body 0 - 1 A Emission
Output Connections	
source	97-3102A-24-27S, Mil Spec Mil-C-5015, 7 pin
neutralizer	97-3102A-14S-2S, Mil Spec Mil-C-5015, 4 pin
Interface	
communications	RS-232, DB 9 female
Interlock / remote switching	DB 9 female
Power Input	208 VAC, 50/60 Hz, 16 A, 1 phase

Chassis	
mounting	19" rack mount, 4U height
size (width x height x depth)	19" x 7" x 20" 483 mm x 178 mm x 508 mm
weight	35 lbs (15.9 Kg)



rear panel view



Ordering Information

IBEAM 602	I-BEAM™ FC/PBN Power Supply (order cables & sources separately)
504682A	7-wire Cable, source and neutralizer, 12' (3.7 m), I-BEAM™ 602 to HV connectors
504683A	7-wire Cable, source and neutralizer, 12' (3.7 m), I-BEAM™ 602 to Lug connectors
504684A	4-wire Cable, filament neutralizer or PBN, 12' (3.7 m) I-BEAM™ 602 to HV connectors
	Custom cables & adaptors available on request



Simple Ion Beam Solutions

7330 Greendale Rd.
Windsor, CO 80550 USA
phone 970-663-6988
fax 970-669-2312

www.plasmaprocessgroup.com
info@plasmaprocessgroup.com